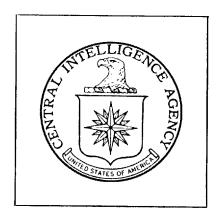
Approved For Release 2002/08/13 : CIA-RDP79T00919A000300020001-7

Top Secret

#2



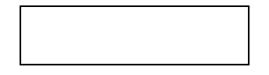
DIRECTORATE OF INTELLIGENCE

Imagery Analysis Report

Lan-chou Chemical Industries China

Declass Review by NIMA/DOD

25X1



Top Secret

PAGES

25X1 25X1 002的分下 AUGUST 1967 COPY 45

11

August 1967

LAN-CHOU CHEMICAL INDUSTRIES

CHINA

SUMMARY

25X1

This study of the chemical industries in Lan-chou, China, reveals continued expansion in the nitrogen fertilizer plant, the petroleum refinery, and the petrochemical complex as of The date of the latest good quality photography covering all three installations. Additional processes were identified in the nitrogen fertilizer plant for nitrogenous fertilizer and possibly superphosphate, and new units were noted in the refinery. A few of the production areas in the petrochemical complex were identified as being associated with synthetic rubber; however, a large part of the complex remains unidentified.

25X1

25X1

25X1

25X1

IMAGERY ANALYSIS SERVICE

CONTENTS

									Page
Summary					•				1
Introduction	ı				•		•	•	24
Lan-chou Ni	crogen Fertilizer Plan	it					•		6
Lan-chou Pet	crochemical Complex .				•				8
Lan-chou Pet	croleum Refinery : .				•		•		10
References					•		•		11
	Illustr	ations	<u> </u>						
Figure 1. (Chemical Industries photog	raph).		•		•			3
Figure 2. 1	Titrogen Fertilizer P			•		•			5
Figure 3. I	Petrochemical Complex (photog	raph)				•			7
Figure 4. I	Petroleum Refinery photog	raph)				•			9

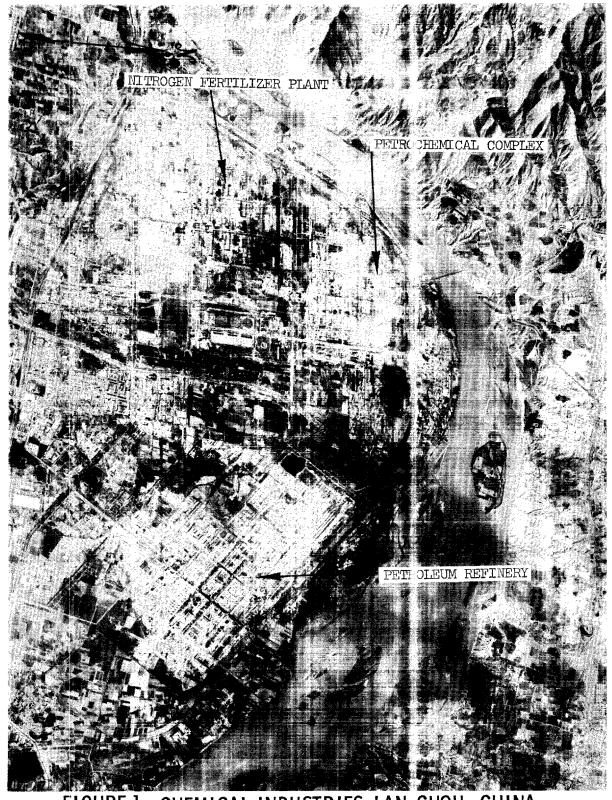


FIGURE 1 CHEMICAL INDUSTRIES, LAN-CHOU, CHINA,

Approved For Release 2002/08/13: CIA-RDP79T00919A000300020001-7

INTRODUCTION

The chemical industries at Lan-chou consist of a nitrogen fertilizer plant, a petrochemical complex, and a petroleum refinery. They are located within a large industrial complex 9 nautical miles west of Lan-chou at the approximate geographic coordinates 36-06N 103-37E (Figure 1). This area, along the south bank of the Huang Ho (Yellow River), also contains a large thermal power plant, an aluminum plant, and several other small industries.

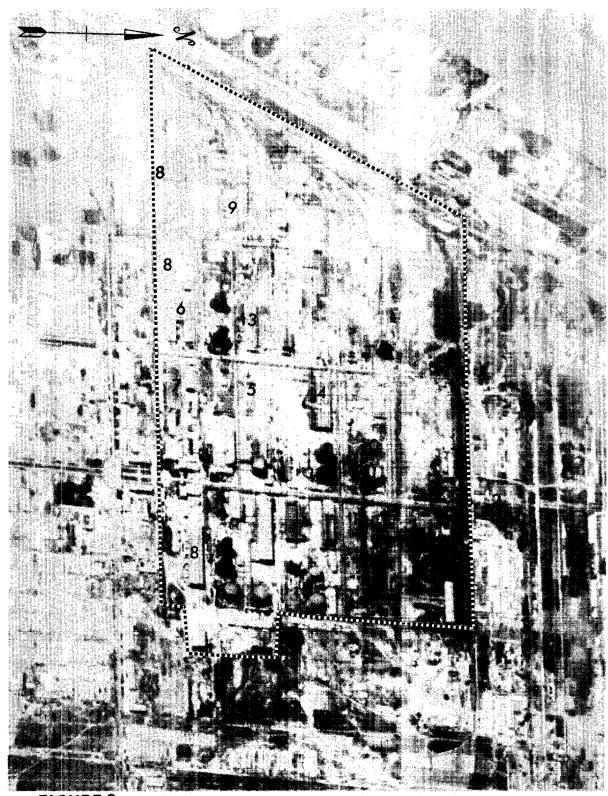


FIGURE 2. NITROGEN FERTILIZER PLANT. LAN-CHOU, CHINA,

Approved For Release 2002/08/13 : CIA-RDP79T00919A000300020001-7

25X1

IMAGERY ANALYSIS SERVICE

LAN-CHOU NITROGEN FERTILIZER PLANT

A previous report 1/ gave a detailed readout of the plant with regard to production of hydrogen, ammonia, nitric acid, and ammonium nitrate. This study will enlarge upon newly identified facilities within the plant since _____ The following descriptions are keyed to annotations on Figure 2:

- 1. Air Liquefaction Building (nitrogen production)
- 2. Air Intake
- 3. Possible Oxidizer Building for Ammonia (nitric acid production)
- 4. Reactor Building and Nitric Acid Absorbers
- 5. Possible Quality Control Laboratory
- 6. Possible Crushing Building for Phosphate Ore
- 7. Possible Mixing and Dens Building for Superphosphate Fertilizer Production
- 8. Warehouses
- Probable Liquid Ammonia Tanks semiburied
- 10. Oxygen Gasholder
- 11. Nitrogen Gasholder



FIGURE 3. PETROCHEMICAL COMPLEX, LAN-CHOU, CHINA

Approved For Release 2002/08/13':

CIA-RDP79T00919A000300020001-7

LAN-CHOU PETROCHEMICAL COMPLEX

Some of the buildings identified in this study are characteristic of synthetic rubber and styrene production plants. A number of other buildings, several of which contain fractionating towers, were observed; however, the functions of these buildings and the associated equipment could not be determined.

The following annotations are keyed to Figure 3:

- 1. Boilerhouse
- 2. Gasholder for Raw Gas
- 3. Aldol Unit (acetaldenhyde conversion to aldol)
- 4. Injector Building (hydrogenation)
- 5. Styrene Plant
- 6. Acetaldehyde Building
- 7. Alcohol Plant
- 8. Styrene and Ethylbenzene Storage
- 9. Plastics Fabricating Plant
- 10. Warehouses
- 11. Administration Area

This plant appears to be under construction and is not in operation.

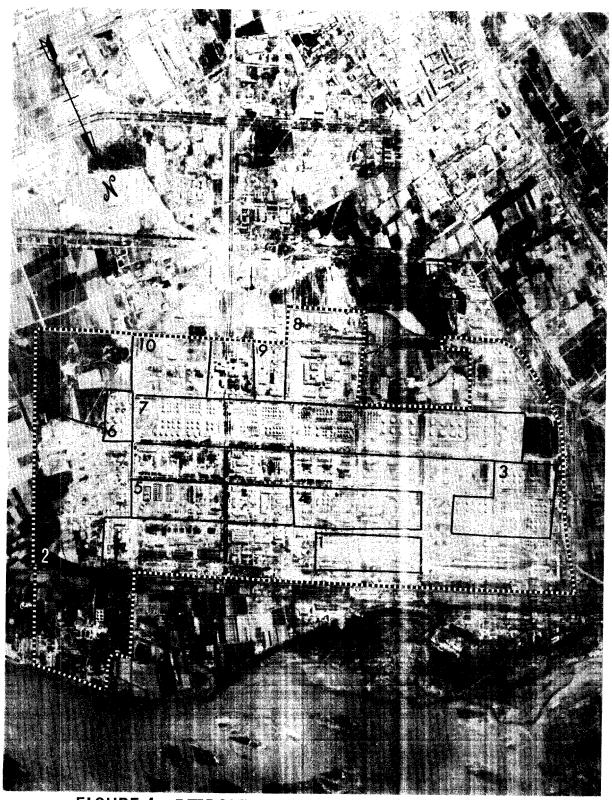


FIGURE 4. PETROLEUM REFINERY, LAN-CHOU, CHINA

Approved For Release 2002/08/13

CIA-RDP79T00919A000300020001-7

CIA-RDP79T00919A000300020001-7

IMAGERY ANALYSIS SERVICE

LAN-CHOU PETROLEUM REFINERY

A previous memorandum 2/ provided a detailed readout of the refinery components; therefore, this study will update developments in the plant which have taken place The following information is keyed to Figure 4:

25X1

Item	Area	New Facilities and Changes	
1	Packaging and Shipping Area	l building enlarged/completed	
2	Unidentified Area	New construction	
3	Tank Storage Area	7 cylindrical tanks	
4	Lubricating Oil Refinery Area	3 large cylindrical tanks	
5	Unidentified Area	New construction and 3 horizontal tanks	
. 6	Tank Storage Area	4 cylindrical tanks and 2 cylindrical tanks under construction	
7	Tank Storage Area	5 cylindrical tanks removed and 2 cylindrical tanks replaced	
8	Possible Petrochemical Area	At least 16 buildings added	
9	Motor Pool	At least 4 buildings added	
10.	Possible Petrochemical Area	3 buildings added	

25X1	Approved For Rele ξο P2%[2(0) [[β]:	CIA-RDP79T00919A000300020001-7	25X1
	IMAGERY ANAI		
	REFEREN	CES	25X1
	Documents		
	CIA/PIR-65097, Lan-chou Ni China, March 1966 (TOP SEC	trogen Fertilizer Plant, Lan-chou,	25X1
	Memorandum PID/IB-104/63, Lan-chou, China (SECRET	7 June 1963, Petroleum Refinery,	25X1
25X1	, ,		
	Requirement		
	C-SI6-83,671		
	DDI/IAS Project		
	31299-6		

25X1

Top Secret